



SMC/SMUC DC/DC CONVERTERS

Technical Specifications

Where?

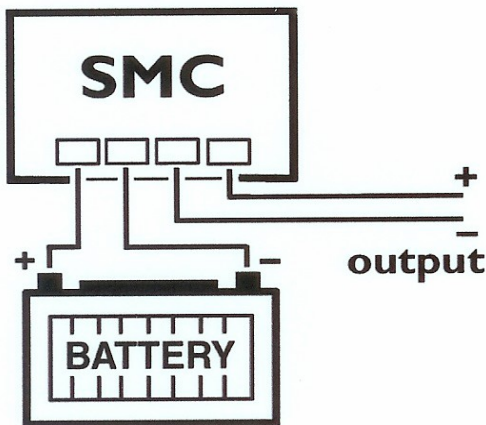
The SMC/SMUC Switched Mode DC/DC converters are non galvanic isolated converters for use with 12V equipment on a 24V board system. There are also two types which make it possible to use 24V equipment on a 12V board system i.e.: Step-up converters (SMUC).

How?

The SMC/SMUC uses a switching technique that results in a high efficiency, which makes it possible to use a compact housing. The types with higher output currents have a temperature controlled fan. The SMC/SMUC converters are short-circuit protected, current limited and combines a high efficiency ($\approx 93\%$) with high reliability.

Why?

Because most equipment is designed for use on a 12V board system it is necessary to use a converter on 24V board systems (trucks, busses etc.) to convert the 24V to a reliable and safe 12V. It is important to use as little energy as possible and produce as little heat as possible in this process, making it fuel-efficient and therefore environmentally friendly.



Non Isolated SM Converter	SMC05	SMC08	SMC12	SMC20	SMC30	SMC60	SMC120	SMUC7	SMUC10	
Max. output current	5	8	12	20	30	60	120	7	10	A
Input voltage	18-35	18-35	18-35	18-35	18-35	18-35	18-35	9-18	9-18	V
Output voltage	13,2	13,2	13,2	13,8	13,8	13,8	13,8	24	24	V
Standby current	< 5	< 5	< 5	≈ 25	≈ 25	≈ 50	≈ 100	< 5	< 5	mA
Temp. controlled fan					✓	✓	✓			
Temp. rise after 30 minutes maximum load	30	20	30	25	33	33	33	30	30	°C
Weight	0,17	0,25	0,26	0,48	0,6	1,2	2,4	0,3	0,4	kg
Dimensions (h x w x d)	49*88*68	49*88*98	49*88*98	49*88*126	49*88*151	88*100*180	175*100*180	49*88*98	49*88*126	mm